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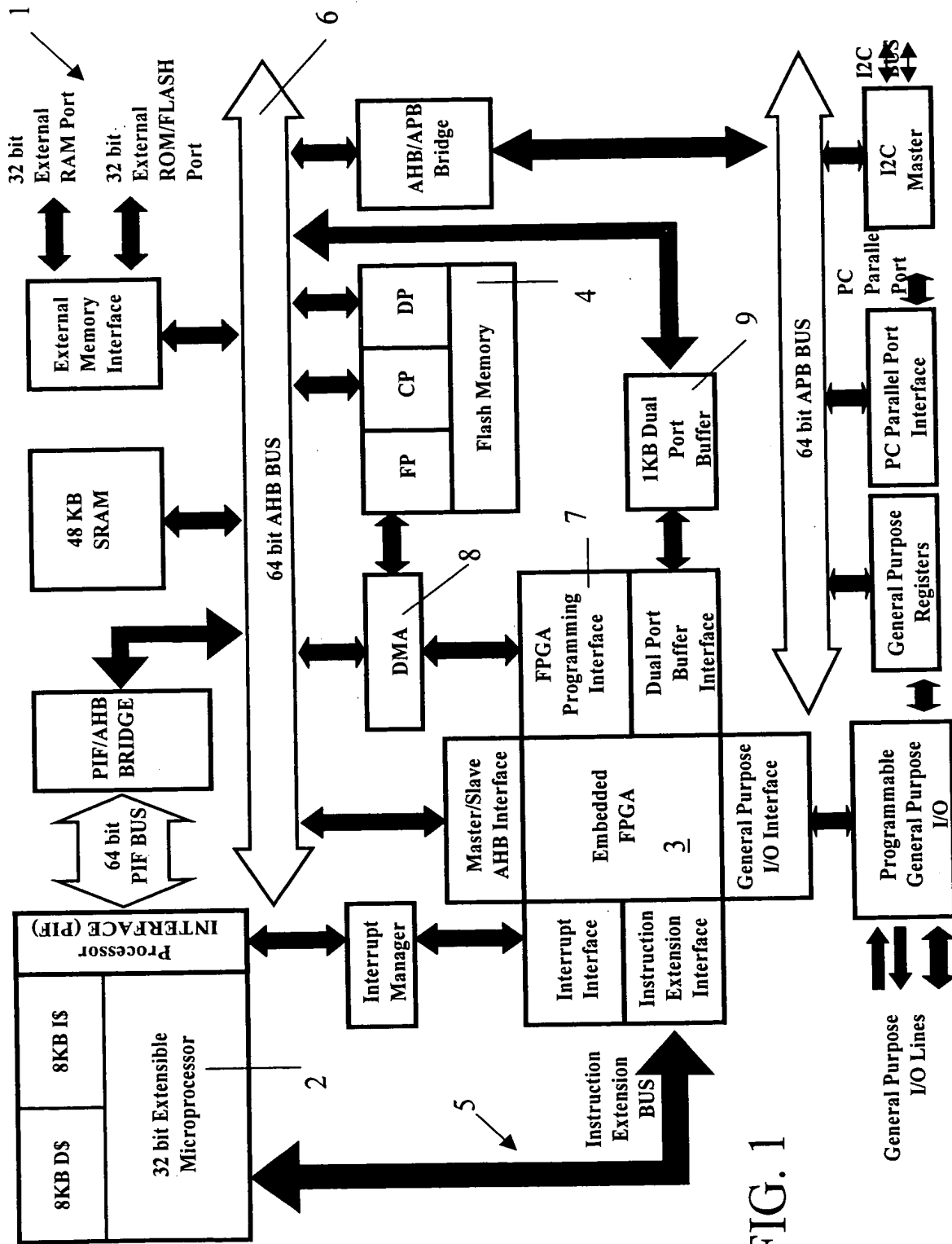
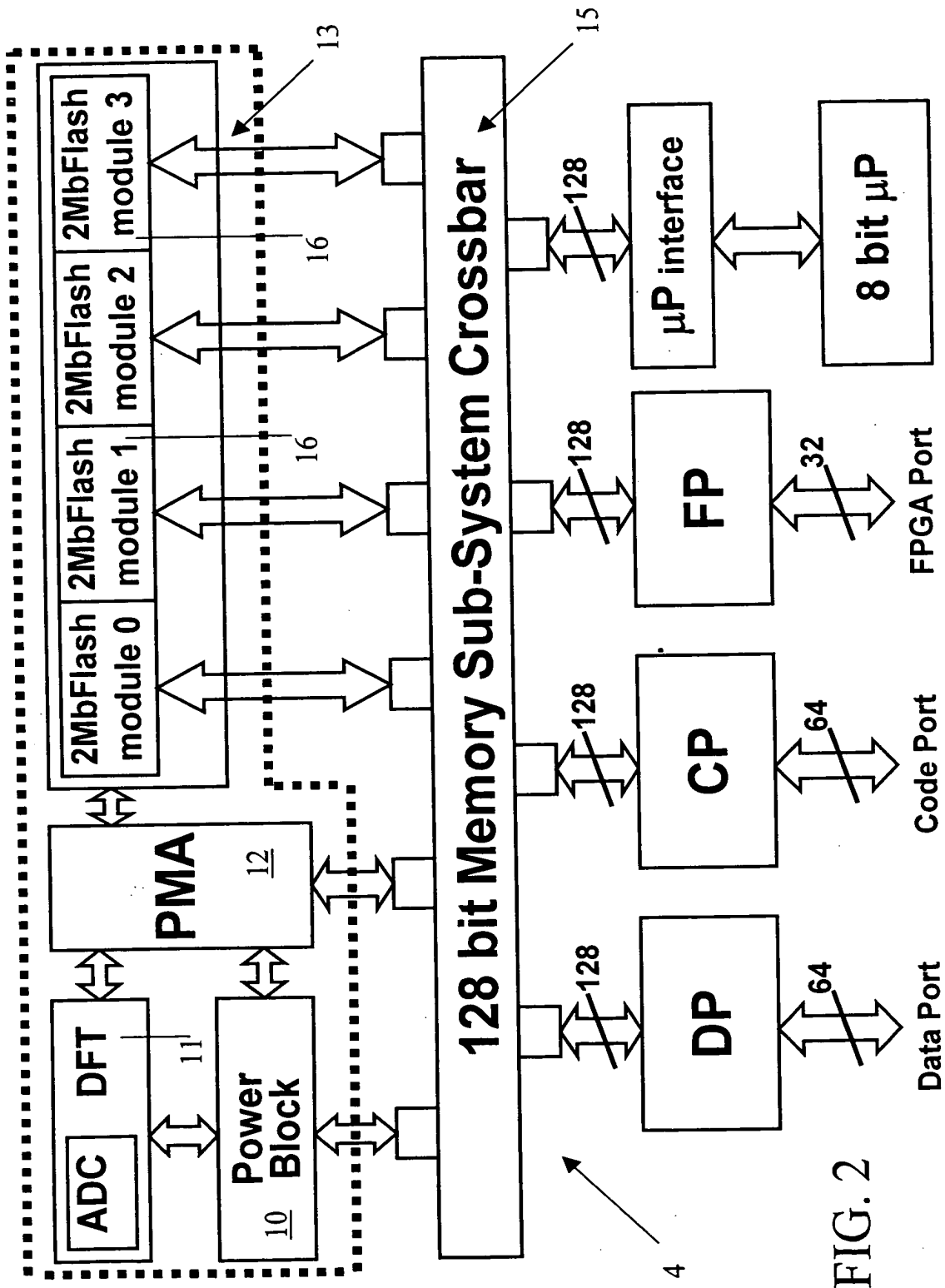


FIG. 1



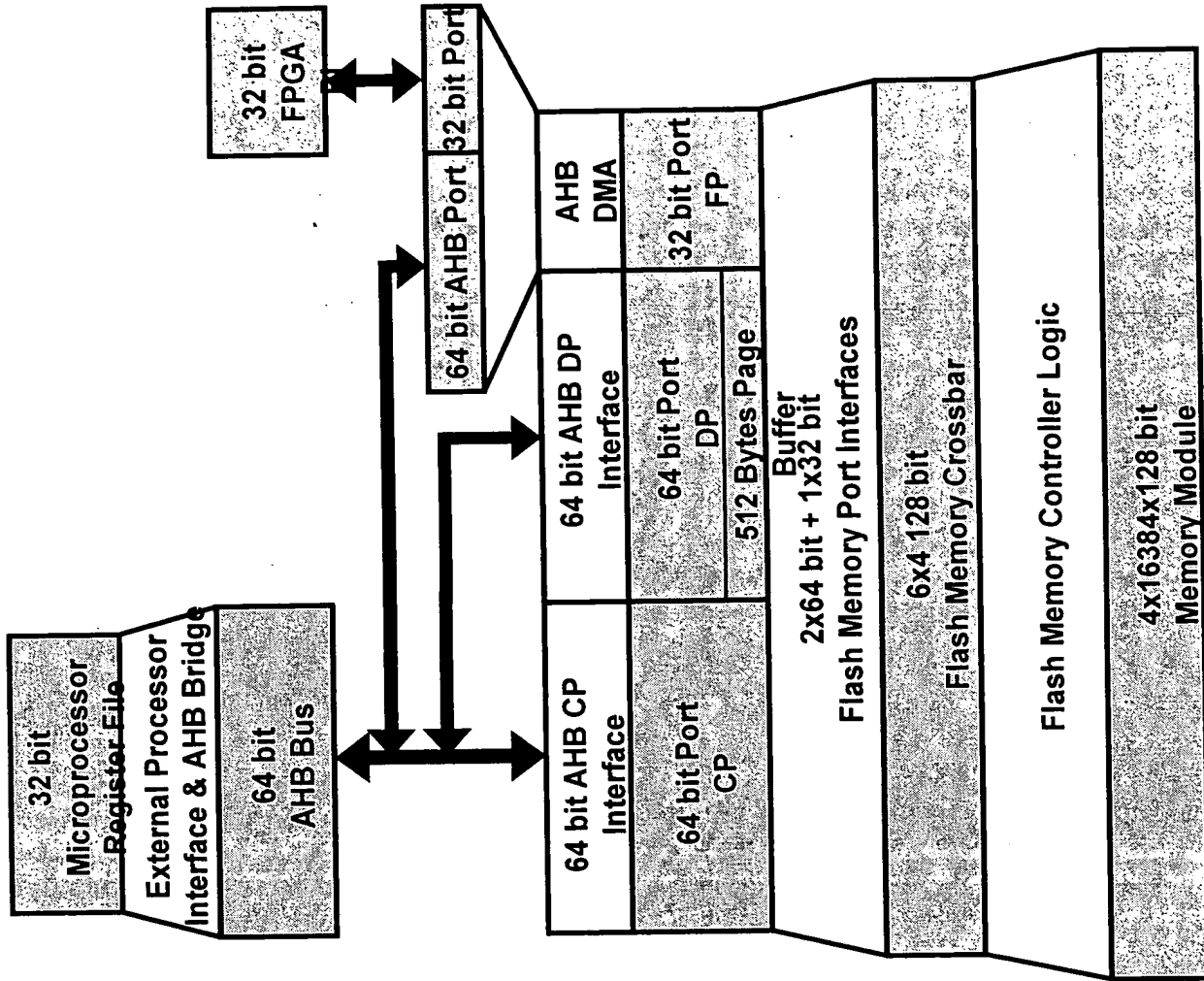
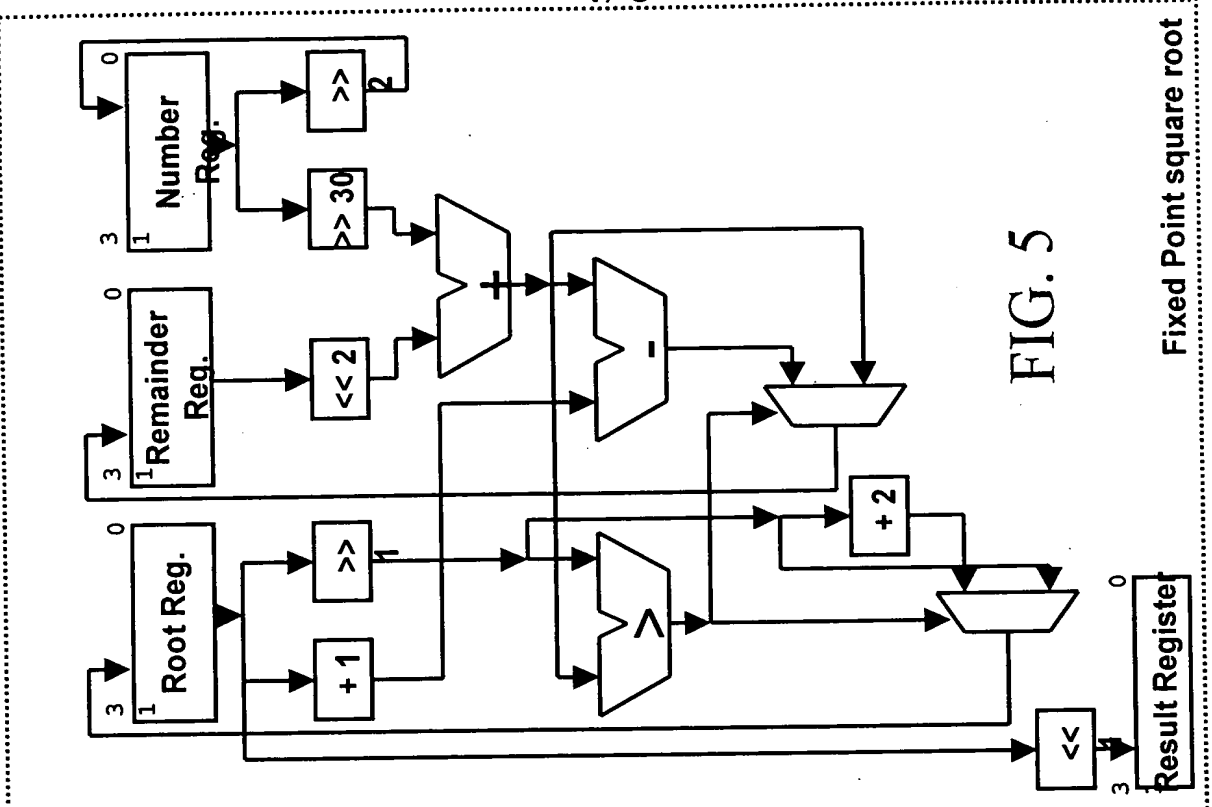
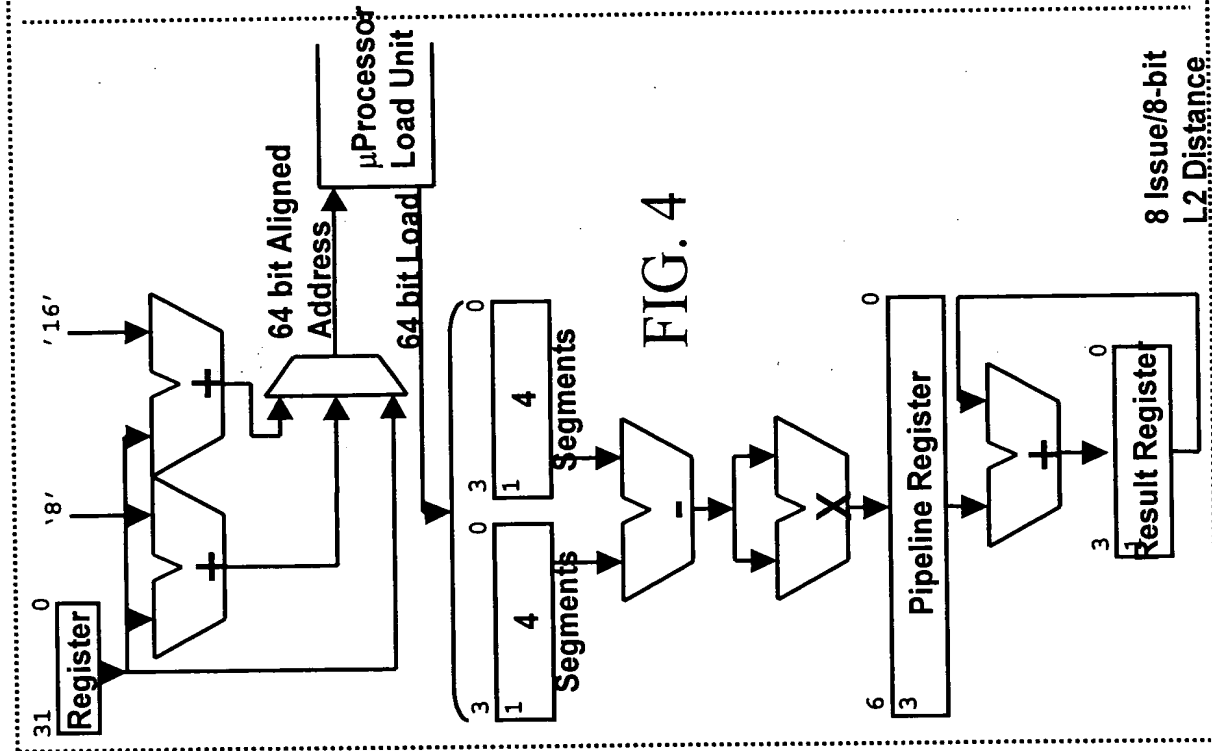


FIG. 3



Algorithm Stage	RISC with basic DSP instruction support	RISC with Microprocessor Extensions	Speed-Up	Energy Gain	Energy Efficiency Gain (Energy x Delay)
Bayer filter	58 msec	24.7 msec	x 2.3	x 1.4	x 3.22
Edge detection	4.5 msec	2.5 msec	x 1.8	x 0.95	x 1.71
Face detection	1.5 sec	382 msec	x 4	x 2.9	x 11.6
Face recognition (Twenty face database)	9.15 sec	860 msec	x 10.6	x 9	x 95.4
Totals	10.7 sec	1.26 sec	x 8.5	x 6.7	

FIG. 6

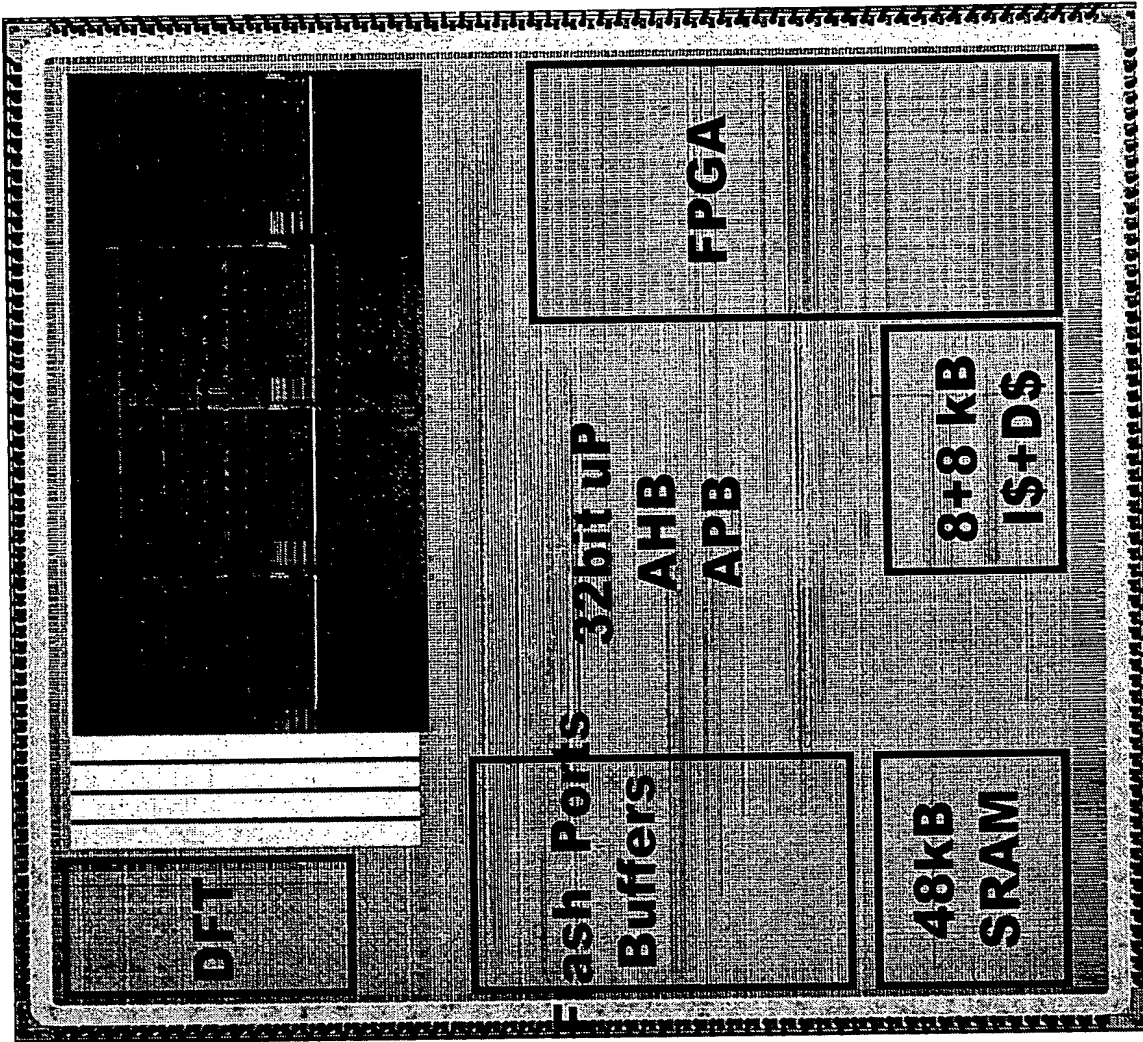


FIG. 7